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PATENT

100.2498
Akkerman 1-51

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Akkerman et al.

Serial No.: 10/701,183

Filed: November 4, 2003

For: DEVICES HAVING LARGE ORGANIC SEMICONDUCTOR CRYSTALS AND METHODS OF MAKING THE SAME

Group: 2871

Examiner: Not Yet Assigned

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INFORMATION DISCLOSURE STATEMENT UNDER § 197(a)

Sir:

This Information Disclosure Statement is being filed before a first Official Action has been mailed in this case.

Pursuant to 37 C.F.R. 1.56, 1.97 and 1.98, applicant's attorney wishes to bring to the attention of the Patent and Trademark Office the following items listed on the accompanying Forms PTO/SB/08A and PTO/SB/08B.

ITEMS

	Document No.	Publication Date	Patentee/Applicant
1.	U.S. Patent No. 5,192,580	03/09/1993	Blanchet-Fincher
2.	U.S. Patent No. 5,288,528	02/22/1994	Blanchet-Fincher
3.	U.S. Patent No. 5,347,144	09/13/1994	Garnier et al.
4.	U.S. Patent No. 5,523,192	06/04/1996	Blanchet-Fincher
5.	U.S. Patent No. 5,563,019	10/08/1996	Blanchet-Fincher
6.	U.S. Patent No. 5,625,199	04/29/1997	Baumbach et al.
7.	U.S. Patent No. 5,766,819	06/16/1998	Blanchet-Fincher
8.	U.S. Patent No. 5,840,463	11/24/1998	Blanchet-Fincher
9.	U.S. Patent No. 5,981,970	11/09/1999	Dimitrakopoulos et al.
10.	U.S. Patent No. 6,051,318	04/18/2000	Kwon
11.	U.S. Patent No. 6,143,451	11/07/2000	Blanchet-Fincher
12.	U.S. Patent No. 6,146,792	11/14/2000	Blanchet-Fincher et al.
13.	U.S. Patent No. 6,174,651	01/16/2001	Thakur
14.	U.S. Patent No. 6,265,243	07/24/2001	Katz et al.
15.	U.S. Patent No. 6,352,811	03/05/2002	Patel et al.
16.	U.S. Patent No. 6,352,812	03/05/2002	Shimazu et al.
17.	U.S. Patent No. 6,403,397	06/11/2002	Katz
18.	U.S. Patent No. 6,551,717	04/22/2003	Katz et al.
19.	U.S. Publication No. 2002/0149315 A1	10/17/2002	Blanchet-Fincher
20.	U.S. Application No. 10/256,885	09/27/2002	Bao et al.
21.	U.S. Application No. 10/669,780	09/24/2003	Bao

22.	U.S. Application No. 60/505,533	09/24/2003	Meth
23.	U.S. Application No. 60/505,880	09/24/2003	Meth et al.
24.	U.S. Application No. 10/671,303	09/24/2003	Bao et al.
25.	U.S. Application No. 10/722,613	11/26/2003	Aizenberg et al.
26.	PCT Publication No. WO 01/87634 A2	11/22/2001	E.I. du Pont de Nemours and Company
27.	PCT Publication No. WO 02/08801 A1	01/31/2002	E.I. du Pont de Nemours and Company
28.	PCT Publication No. WO 02/092352 A1	11/21/2002	E.I. du Pont de Nemours and Company

Other Publications

29. AFZALI ET AL., High-Performance, Solution-Processed Organic Thin Film Transistors from a Novel Pentacene Precursor, J. Am. Chem. Soc., 2002, Page(s) 8812-8813, Volume 124

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31. AIZENBERG ET AL., Control of Crystal Nucleation by Patterned Self-Assembled Monolayers, Nature, April 8, 1999, Page(s) 495-498, Volume 398

32. AIZENBERG ET AL., Oriented Growth of Calcite Controlled by Self-Assembled Monolayers of Functionalized Alkanethiols Supported on Gold and Silver, J. Am. Chem. Soc., 1999, Page(s) 4500-4509, Volume 121

33. AKIMICHI ET AL., Field-Effect Transistors Using Alkyl Substituted Oligothiophenes, Appl. Phys. Lett., 1991, Page(s) 1500-1502, Volume 58, Number 14

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36. COLLET ET AL., High Anisotropic Conductivity in Organic Insulator/Semiconductor Monolayer Heterostructure, Applied Physics Letters, 3/6/2000, Page(s) 1339-1341, Volume 76, Number 10, Publisher: American Institute of Physics

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38. COLLET ET AL., Nano-field Effect Transistor with an Organic Self-Assembled Monolayer as Gate Insulator, Applied Physics Letters, November 2, 1998, Page(s) 2681-2683, Volume 73, Number 18

39. DE BOER ET AL., Synthesis and Characterization of Conjugated Mono- and Dithiol Oligomers and Characterization of Their Self-Assembled Monolayers, Langmuir, 2003, Page(s) 4272-4284, Volume 19

40. ECHAVARREN ET AL., J. Am. Chem. Soc., 1987, Page(s) 5478-5486, Volume 109

41. FORREST, Ultrathin Organic Films Grown by Organic Molecular Beam Deposition and Related Techniques, Chem. Rev., Page(s) 1793-1896, Volume 97, Publisher: American Chemical Society

42. HALIK ET AL., High-Mobility Organic Thin-Film Transistors Based on a, a'-didecyloligothiophenes, Journal of Applied Physics, March 1, 2003, Page(s) 2977-2981, Volume 93, Number 5

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44. HAN ET AL., Face-Selective Nucleation of Calcite on Self-Assembled Monolayers of Alkanethiols: Effect of the Parity of the Alkyl Chain, Angew. Chem. Int. Ed., 2003, Page(s) 3668-3670, Volume 42

45. HONG ET AL., Thiophene-Phenylene and Thiophene-Thiazole Oligomeric Semiconductors with High Field-Effect Transistor On/Off Ratios, Chem. Mater., 2001, Page(s) 4686-4691, Volume 13, Number 12

46. JOHNSTON ET AL., Low-Energy Vibrational Modes in Phenylene Oligomers Studied by THz Time-Domain Spectroscopy, Chemical Physics Letters, 2003, Page(s) 256-262, Volume 377

47. KATZ ET AL., Synthesis, Solubility, and Field-Effect Mobility of Elongated and Oxa-substituted a,w-Dialkyl Thiophene Oligomers: Extension of 'Polar Intermediate' Synthetic Strategy and Solution Deposition on Transistor Substrates, Chem. Mater., 1998, Page(s) 633-638, Volume 10, Number 2

48. KLAUK ET AL., High-Mobility Polymer Gate Dielectric Pentacene Thin Film Transistors, Journal of Applied Physics, November 1, 2002, Page(s) 5259-5263, Volume 92, Number 9

49. KLAUK ET AL., Pentacene Organic Thin-Film Transistors and ICs, Solid State Technology, March 2000, Page(s) 63-76, Volume 43, Number 3

50. LI ET AL., Field-Effect Transistors Based on Thiophene Hexamer Analogues with Diminished Electron Donor Strength, Chem. Mater., 1999, Page(s) 458-465, Volume 11, Number 2

51. MATTERS ET AL., Organic Field-Effect Transistors and All-Polymer Integrated Circuits, Optical Materials, 1999, Page(s) 189-197, Volume 12

52. MEYER ZU HERINGDORF ET AL., Growth Dynamics of Pentacene Thin Films, Nature, August 2, 2001, Page(s) 517-520, Volume 412

53. MUSHRUSH ET AL., Easily Processable Phenylene-Thiophene-Based Organic Field-Effect Transistors and Solution-Fabricated Nonvolatile Transistor Memory Elements, J. Am. Chem. Soc., 2003, Page(s) 9414-9423, Volume 125, Number 31

54. SEO ET AL., Interpretation of the Mass Change Behavior in the Binary Monolayer of Hydroquinone-tethered Alkylthiol and Aminoalkythiol, Bull. Korean Chem. Soc., 2002, Page(s) 1671-1673, Volume 23, Number 11

55. STABEL ET AL., Scanning Tunneling Microscopy of Alkylated Oligothiophenes at Interfaces with Graphite, Synthetic Metals, 1994, Page(s) 47-53, Volume 67

56. TANIMOTO ET AL., Binary Phase Chlorination of Aromatic Hydrocarbons with Solid Copper(II) Chloride: Reaction Mechanism, Bull. Chem. Soc. Japan, 1979, Page(s) 3586-3591, Volume 52, Number 12

57. XIA ET AL., Soft Lithography, Angew. Chem. Int. Ed., 1998, Page(s) 550-575, Volume 37

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information cited is considered to be material to patentability, nor shall it be construed that no other material information exists.

Respectfully submitted,

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	5

Complete if Known	
Application Number	10/701,183
Filing Date	November 4, 2003
First Named Inventor	Akkerman et al.
Art Unit	2871
Examiner Name	
Attorney Docket Number	100.2498

U.S. PATENT DOCUMENTS

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	2	US- 5,288,528	02/22/1994	Blanchet-Fincher	
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	18	US- 6,551,717	04/22/2003	Katz et al.	
	19	US- 2002/0149315 A1	10/17/2002	Blanchet-Fincher	
	20	US- 10/256,885	09/27/2002	Bao et al.	

FOREIGN PATENT DOCUMENTS

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 5

Complete if Known	
Application Number	10/701,183
Filing Date	November 4, 2003
First Named Inventor	Akkerman et al.
Art Unit	2871
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	23	US- 60/505,880	09/24/2003	Meth et al.	
	24	US- 10/671,303	09/24/2003	Bao et al.	
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	29	AFZALI ET AL., High-Performance, Solution-Processed Organic Thin Film Transistors from a Novel Pentacene Precursor, J. Am. Chem. Soc., 2002, Page(s) 8812-8813, Volume 124	
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	39	DE BOER ET AL., Synthesis and Characterization of Conjugated Mono- and Dithiol Oligomers and Characterization of Their Self-Assembled Monolayers, Langmuir, 2003, Page(s) 4272-4284, Volume 19	
	40	ECHAVARREN ET AL., J. Am. Chem. Soc., 1987, Page(s) 5478-5486, Volume 109	

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	44	HAN ET AL., Face-Selective Nucleation of Calcite on Self-Assembled Monolayers of Alkanethiols: Effect of the Parity of the Alkyl Chain, Angew. Chem. Int. Ed., 2003, Page(s) 3668-3670, Volume 42	
	45	HONG ET AL., Thiophene-Phenylene and Thiophene-Thiazole Oligomeric Semiconductors with High Field-Effect Transistor On/Off Ratios, Chem. Mater., 2001, Page(s) 4686-4691, Volume 13, Number 12	
	46	JOHNSTON ET AL., Low-Energy Vibrational Modes in Phenylene Oligomers Studied by THz Time-Domain Spectroscopy, Chemical Physics Letters, 2003, Page(s) 256-262, Volume 377	
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	49	KLAUK ET AL., Pentacene Organic Thin-Film Transistors and ICs, Solid State Technology, March 2000, Page(s) 63-76, Volume 43, Number 3	
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	51	MATTERS ET AL., Organic Field-Effect Transistors and All-Polymer Integrated Circuits, Optical Materials, 1999, Page(s) 189-197, Volume 12	
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